



### 3<sup>rd</sup> IL TROVATORE Progress Meeting

10-12 September 2018,  
 Helmut Schmidt University, Holstenhofweg 85  
 D-22043 Hamburg, Germany

#### Meeting Agenda

Day 1: Monday 10 <sup>th</sup> September 2018	
AULA: Room 1, HSU	
<b>10:00-12:00 Tour through laboratories of Materials Technology HSU</b>	
<b>12:00-13:15 Welcome sandwich lunch, coffee &amp; registration</b>	
<b>13:10 Welcome / intro HSU</b>	F. Gärtner (HSU)
<b>13:20 Welcome, agenda review</b>	K. Lambrinou (SCK•CEN)
<b>13:30 IL TROVATORE status overview</b> <ul style="list-style-type: none"> <li>○ Overall status &amp; achievements (material supply, reporting to EC, etc.)</li> <li>○ Milestones &amp; Deliverables until month 18</li> </ul>	K. Lambrinou (SCK•CEN)
<b>14:00 WP10 – Standardisation</b> <ul style="list-style-type: none"> <li>○ Status of WP10 (overview, material supply, MS1, ...)</li> <li>○ Action plan until month 18 (D10.1); distribution of responsibilities</li> </ul>	C. Lorrette (CEA)
<b>14:40 WP11 – Exploitation of Results</b> <ul style="list-style-type: none"> <li>○ Status of WP11 (overview)</li> <li>○ Action plan until month 18; envisaged approach for exploitation roadmap development</li> </ul>	K. Göransson (WH SE)
<b>15: 10-15:40 Coffee break</b>	
<b>15:40 WP12 – Dissemination &amp; Communication</b> <ul style="list-style-type: none"> <li>○ Status of WP12 (overview)                             <ul style="list-style-type: none"> <li>● Task 12.1 – Knowledge management &amp; protection                                     <ul style="list-style-type: none"> <li>▪ Data Management Plan (D12.2): approach &amp; status</li> </ul> </li> <li>● Task 12.2 – Communication, education &amp; training                                     <ul style="list-style-type: none"> <li>▪ Website guided tour (D13.1)</li> <li>▪ Communication Action Plan (D12.1)</li> <li>▪ Planning of Education &amp; Training activities (D12.3-D12.8)</li> </ul> </li> </ul> </li> <li>○ Action plan until month 18 (D12.2, MS9); distribution of responsibilities</li> </ul>	D. Couvreur (SCK•CEN)
<b>17:30 Meeting adjourn</b>	
<b>19:00-... Dinner at Hotel "Hafen Hamburg", Seewartenstraße 9, 20459 Hamburg (<a href="https://www.hotel-hafen-hamburg.de/en/contact/">https://www.hotel-hafen-hamburg.de/en/contact/</a>)</b>	

<b>Day 2: Tuesday 11<sup>th</sup> September 2018</b>	
<b>AULA: Room 1, HSU</b>	
<p><b>9:00 WP1 – Processing of engineered bulk materials</b></p> <ul style="list-style-type: none"> <li>○ Status of WP1 (overview, material supply, MS3, problems)                             <ul style="list-style-type: none"> <li>● Task 1.1 – SiC/SiC composite clads</li> <li>● Task 1.2 – MAX phases</li> <li>● Task 1.3 – Doped oxides</li> <li>● Task 1.4 – ODS-FeCrAl alloys</li> </ul> </li> <li>○ Action plan until month 18; distribution of tasks</li> </ul>	J. Vleugels (KU Leuven)
<b>10:00-10:30 Coffee break</b>	
<p><b>10:30 WP2 – Coating deposition &amp; surface modification of clads/joints</b></p> <ul style="list-style-type: none"> <li>○ Status of WP2 (overview, material supply, problems)                             <ul style="list-style-type: none"> <li>● Task 2.1 – Design of coated systems (approach for all systems)</li> <li>● Task 2.2 – MAX phase coatings (approach)</li> <li>● Task 2.3 – Oxide coatings (approach)</li> <li>● Task 2.4 – GESA surface modification (approach)</li> </ul> </li> <li>○ Action plan until month 18; distribution of tasks</li> </ul>	J. Rosén (LiU)
<p><b>11:30 WP3 – Joining of ATF clads &amp; testing of joints/welds</b></p> <ul style="list-style-type: none"> <li>○ Status of WP3 (overview, material supply, problems)                             <ul style="list-style-type: none"> <li>● Tasks 3.1 &amp; 3.2 – Joining of SiC/SiC clads (approaches)</li> <li>● Task 3.4 – Testing of SiC/SiC joints (methods)</li> </ul> </li> <li>○ Action plan until month 18 (MS7); distribution of tasks</li> </ul>	M. Ferraris (POLITO)
<b>12:30-13:30 Lunch &amp; coffee at HSU Mensa</b>	
<p><b>13:30 WP4 – Advanced characterisation &amp; testing of ATF clads &amp; joints</b></p> <ul style="list-style-type: none"> <li>○ Status of WP4 (overview, material supply, problems)                             <ul style="list-style-type: none"> <li>● Task 4.1 – Characterisation of SiC/SiC composites (approach)</li> <li>● Task 4.2 – Characterisation of MAX phases &amp; oxides (approach)</li> <li>● Task 4.3 – Characterisation of ODS-FeCrAl alloys (approach)</li> </ul> </li> <li>○ Action plan until month 18; distribution of tasks</li> </ul>	B. Clegg (UCAM)
<p><b>14:00 WP5 – Coolant/cladding/fuel interaction tests &amp; CaFFE status</b></p> <ul style="list-style-type: none"> <li>○ Status of WP5 (overview, material supply, problems)                             <ul style="list-style-type: none"> <li>● Task 5.2 – Aqueous corrosion, nominal conditions (status)</li> <li>● Task 5.3 – High-temperature steam oxidation (status)</li> <li>● Task 5.4 – Fuel/cladding interaction tests (status/plan)</li> </ul> </li> <li>○ Action plan until month 18 (MS6); distribution of responsibilities/tasks</li> </ul>	M. Große (KIT)
<b>15:00-15:30 Coffee break</b>	
<p><b>15:30 WP9 – Predictive modelling activities &amp; CaFFE status</b></p> <ul style="list-style-type: none"> <li>○ Status of WP9 (overview, approach, tools, test cases, synergy &amp; convergence)                             <ul style="list-style-type: none"> <li>● Task 9.1 – n-damage at PyC/SiC interface (approach)</li> <li>● Tasks 9.2 &amp; 9.3 – n-damage in ceramic coatings (approach)</li> <li>● Task 9.4 – Thermodynamic modelling of coated systems (approach)</li> <li>● Task 9.5 – Prediction of in-service damage evolution (approach)</li> </ul> </li> <li>○ Action plan until month 18; distribution of tasks</li> </ul>	T.J. Marrow (UOXF)
<p><b>16:30 WP7 – Neutron irradiation of ATF clads &amp; joints</b></p> <ul style="list-style-type: none"> <li>○ Status of WP7 (overview, status of MISTRAL rig design)</li> <li>○ Action plan until month 18 (D7.1); description of tasks</li> </ul>	M. Verwerft (SCK•CEN)
<b>17:30 Meeting adjourn</b>	
<b>19:00-... Dinner at “Bobby Reich”, Fernsicht 2, 22301 Hamburg (<a href="http://www.bobbyreich.de/">http://www.bobbyreich.de/</a>)</b>	

<b>Day 3: Wednesday 12<sup>th</sup> September 2018</b>	
<b>AULA: Room 1, HSU</b>	
<b>9:30 WP8 – PIE of neutron-irradiated clads &amp; joints</b> <ul style="list-style-type: none"> <li>○ Status of WP8 (overview, MS4)                             <ul style="list-style-type: none"> <li>● Task 8.1 – Mining of existing irradiation data (approach, MS4)</li> </ul> </li> <li>○ Action plan until month 18 (MS4); distribution of responsibilities/tasks</li> </ul>	S. Ortner (NNL)
<b>10:00 WP6 – Ion/proton irradiation &amp; PIE of ATF clads &amp; joints &amp; CaFFE status</b> <ul style="list-style-type: none"> <li>○ Status of WP6 (overview, material supply, problems)</li> <li>○ Action plan until month 18 (D6.1, MS8); distribution of responsibilities/tasks</li> </ul>	V. Vishnyakov (UHUD)
<b>11:00</b> Miscellaneous (project meetings, ...)	All
<b>11:30 Meeting adjourn</b>	
<b>12:00-13:00 Lunch &amp; coffee at HSU Mensa</b>	

## Il Trovatore Meeting Hamburg

Concerning travel, we from HSU always recommend to extend visits to Hamburg by a day or more for sightseeing, here better the weekend before. There is lot to see or to hear (ranking 11 as most welcoming city worldwide <https://travelbird.nl/most-welcoming-cities/>). See more under <https://www.hamburg-travel.com/attractions/>.

### Hotel recommendation

(the named ones are all close to the public transport to HSU)

#### Ibis Hamburg Alsterring

(Pappelallee 61, 22089 Hamburg; <https://www.accorhotels.com/gb/hotel-3282-ibis-hamburg-alsterring/index.shtml>)

#### Tiefenthal Hotel Hamburg

(Wandsbeker Marktstr. 109, 22041 Hamburg; <https://www.tiefenthal-hotel.de/en/>)

#### my Apartment Hotel

(Schiffbeker Weg 306, 22043 Hamburg; <http://www.my-apartmenthotel.de/>)

#### Hotel ibis Hamburg Alster Centrum

(Holzdamm 4-12 + 16, 20099 Hamburg; <https://www.accorhotels.com/gb/hotel-1395-ibis-hamburg-alster-centrum/index.shtml>)

#### Hotel Motel One Hamburg-Alster

(Steindamm 102, 20099 Hamburg; <https://www.motel-one.com/en/hotels/hamburg/hotel-hamburg-alster/>)

#### City Apartment Hotel Hamburg

(Schröderstraße 35 - 35a, 22087 Hamburg; <http://www.cityhotel-hamburg.de/>)

#### Hotel Baseler Hof

(Baseler Hof GmbH & Co. KG · Esplanade 11 · 20354 Hamburg; [http://www.baselerhof.de/index\\_en.php](http://www.baselerhof.de/index_en.php))

#### Crowne Plaza

(Graumannsweg 10, 22087 Hamburg;  
<https://www.ihg.com/crowneplaza/hotels/us/en/hamburg/hamge/hoteldetail>)

**Travel description of the way to the Helmut Schmidt University, University of the Federal Armed Forces, Hamburg  
(public transport see: <http://www.hvv.de/en/>)**

**Arriving at Hamburg airport:**

At the exit of arrivals, watch out for the underground railway. One way tickets can be purchased for EUR 3.30 at any of the machines of the HVV (price category 3, Großbereich). The ticket will be validated directly by the machines. Take the S1 towards town centre (main railway station). At the “Wandsbeker Chaussee” leave the S1 and change for the “Underground line “U1”, direction “Grosshansdorf”. Leave the train at the next station “Wandsbek-Markt”.

Continue reading at Bus from Wandsbek-Markt to HSU:

**Arriving at Hamburg main railway station:**

Leave the train at Hamburg main railway station (Hauptbahnhof). For the travel to the University of the Federal Armed Forces, underground and bus should be used. The travel will need between 20 and 30 min. Tickets can be purchased for EUR 3.30 at any of the machines of the HVV (price category 3). The ticket will be validated directly by the machines. The underground U1, which has to be taken into the direction of Wandsbek-Markt, is running from the south underground station. Therefore, is more convenient to leave the train platform on southern stairs (in the hall the big Philips advert can be noticed). The south hall should be left in eastern direction, which directly guides into the underground station (U1 is running on the south platform).

Continue reading at Bus from Wandsbek-Markt to HSU:

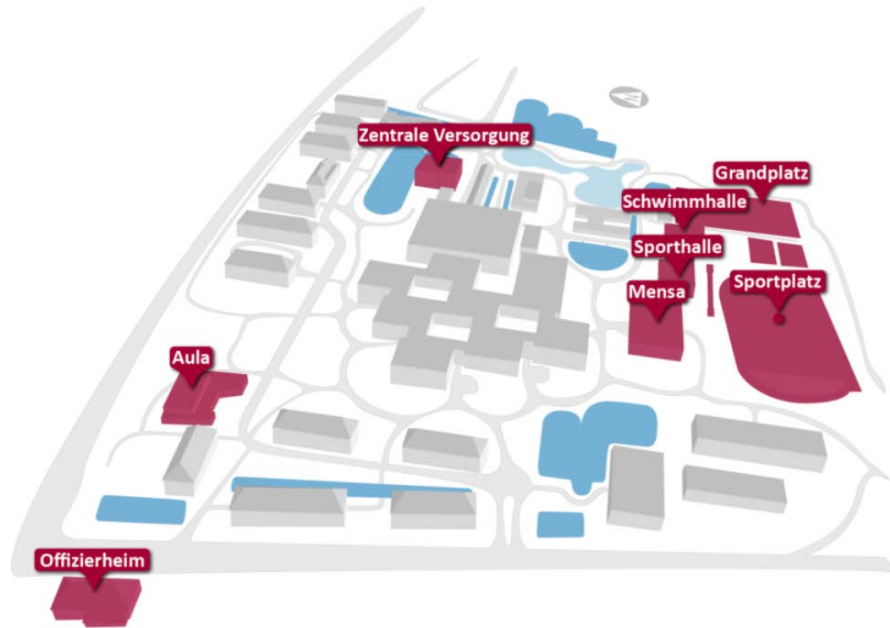
**Bus from Wandsbek-Markt to HSU**

Leaving the U1 at Wandsbek-Markt, busses No 263 or /Metrobus 10 can be taken. The platform for these busses can be found by leaving the underground in driving direction, going straight up 2 sets of stairs. Coming from the underground, buses 263 /Metrobus 10 are starting at the end of the left platform. The University of the Federal Armed Forces has its own bus stop (Universität der Bundeswehr), which is the 6th station. The bus stops at the junction between Holstenhofweg and Rodigallee. In southern direction, the main entrance gate Holstenhofweg 85 will be reached after 200 m (left side).

**At HSU**

From the gate, the AULA building can be reached after 300 m by following street and foot paths to the left.

## HSU Site Map



## HSU Access

